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EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES

Wireless 5G HDMI Extender with IR Support up to 50 Meters



Model #: W-HD3DIR-50M

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SECTION I: GETTING STARTED

I.1 IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
- Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
- Repair or attempted repair by anyone not authorized by us.
- Any damage of the product due to shipment.
- Removal or installation of the product.
- Causes external to the product, such as electric power fluctuation or failure.
- Use of supplies or parts not meeting our specifications.
- Normal wear and tear.
- Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

I.2 SAFETY INSTRUCTIONS

The Avenview W-HD3DIR-50M, Wireless Extender has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the W-HD3DIR-50M should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.




- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- ⚠ Keep the module away from liquids.
- ⚠ Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ Have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

| Warning symbols | Description |
|---|--|
|  | <p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p> |
|  | <p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p> |
|  | <p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.</p> |
|  | <p>⚠ WARNING</p> <p>Read & understand user guide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p> |

2. INTRODUCTION


W-HD3DIR-50M, wireless extender set runs at 5GHz operation frequency to deliver HD video/audio 50 meters. This device kit make wireless connection by using WHDI Technology from HD media Source Devices such as HD Disc or content player, PC, Game Console or Set-Top-Box to any display Device for example LCD, Plasma or LED TV or projector. Providing outstanding and consistent picture quality equivalent to wired HDMI™ cable, with low latency, multi-room connection and low power consumption.

- WHDI Technology with less than 1 frame latency
- Transmits through obstacles
- 2.4G 7dBi antenna
- Supports resolutions up to 1080p Full HD, up to 7.1 channels of LPCM digital audio, and up to 5.1 channels of Dolby® and DTS® formats
- Extends HDMI video and audio up to 50M
- Supports HDMI, EDID 1.1, Support HDCP 2.0
- Secured wireless signal supporting AES 128 image encryption
- Real time audio compression
- Suitable for use with Residential, PC presentations
- Extends IR and CEC Signals for remote control of AV Equipment
- Support point-to-point and point-to-multi-point transmission
- Plug and play; no software or wifi configuration required on multiple OS platforms.



2.1 PACKAGE CONTENTS

Before you start the installation of W-HD3DIR-50M, please check package contents.

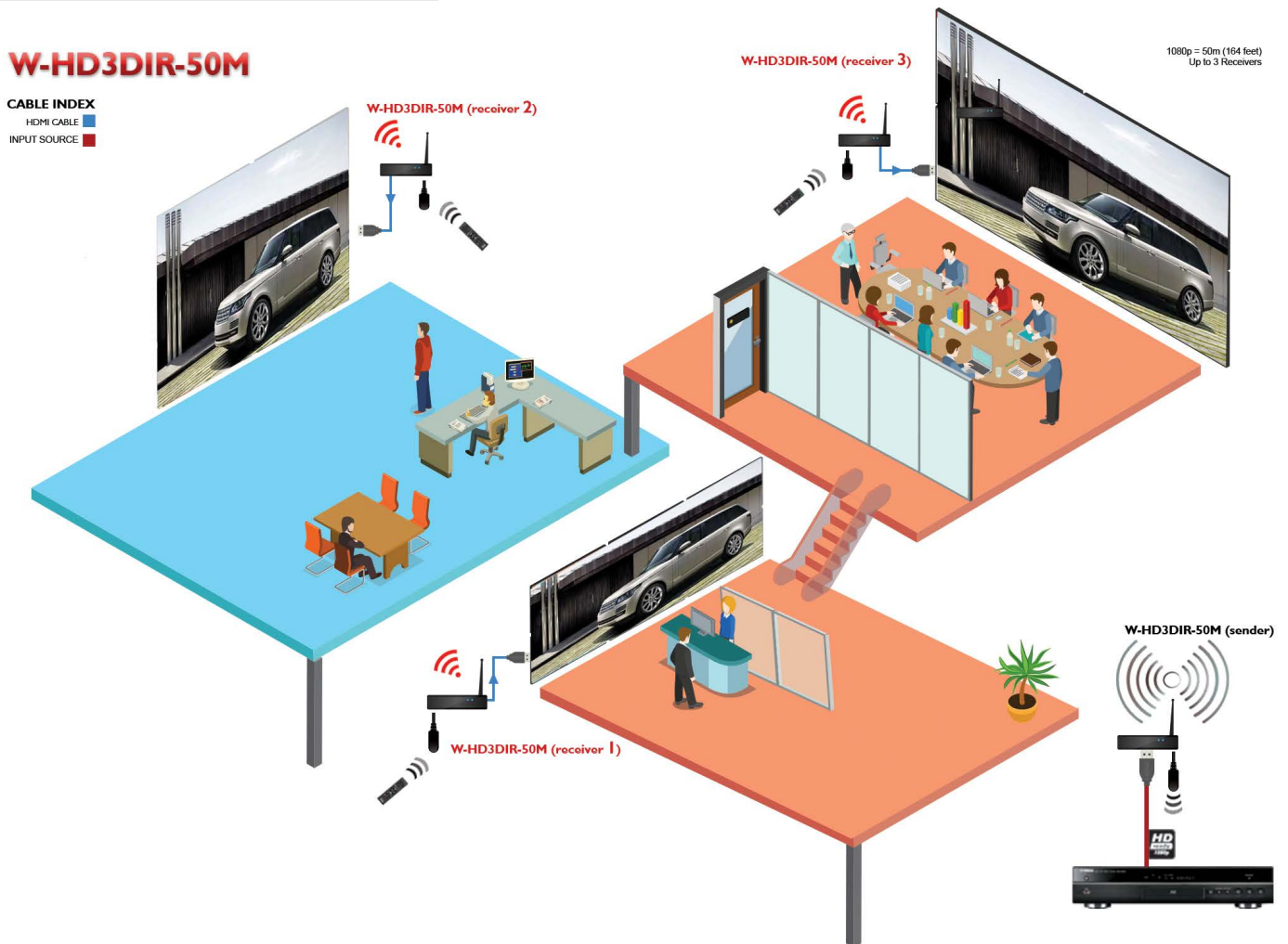
| | | | |
|---|---|------------|---|
| 1 | WIRELESS TRANSMITTER WIRELESS RECEIVER | X 1 X 1 |  |
| 2 | POWER ADAPTER (5VDC/2A) | X 2 |  |
| 3 | IR BLASTER EXTNSION | X 1 |  |
| 4 | IR RECEIVER EXTENSION | X 1 |  |
| 5 | USER'S MANUAL | X 1 |  |

2.2 BEFORE INSTALLATION

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the HDMI cable. It can cause malfunction.



2.3 APPLICATION DIAGRAM



It is ideal when your media player is located in your living room, while you want to watch your Full HD Movies on Your LCD, Plasma or LED display device in your bedroom. You can install the Wireless HD Transmitter and Receiver Kit and let the wireless transmission do the work via the WHDI Technology. Furthermore, you can operate the media player with the original remote control in your bedroom.

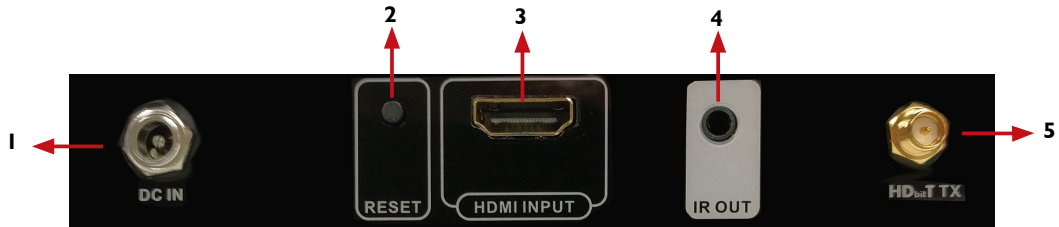
The W-HD3DIR-50M is capable of wireless signal broadcasting for up to 3 receivers on the same sender over WHDI signal, this feature will allow signal broadcasting wirelessly to three different displays from the same sender source.

Before starting the installation please ensure all devices are powered off



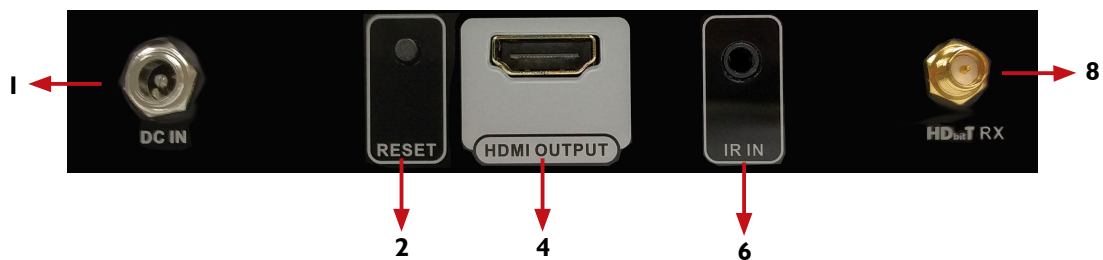
3. PANEL DESCRIPTION

INPUT PANEL (Transmitter, W-HD3DIR-50M-S)



| |
|--|
| 1. POWER DC IN: Connect to power adapter provided in package |
| 2. RESET: Press RESET to refresh the link/connection between a sender and a receiver |
| 3. HDMI INPUT: Connect to source equipment such Blu-ray/Set Top Box players with HDMI cable |
| 4. IR OUT: Connect IR Receiver to control source |
| 5. ANTENNA INTERFACE: Antenna connection for range extension |

INPUT PANEL (Receiver, W-HD3DIR-50M-R)



| |
|---|
| 1. POWER DC IN: Connect to power adapter provided in package |
| 2. RESET: Press RESET to refresh the link/connection between a sender and a receiver |
| 3. HDMI OUT: Connect to display or monitor with HDMI cable. |
| 4. IR IN: Connect IR Blaster to control source |
| 5. ANTENNA INTERFACE: Antenna connection for range extension |



4. INSTALLATION (W-HD3DIR-50M)

To setup Avenview W-HD3DIR-50M please follow these steps for connecting to a device:

1. Place the Transmitter unit in close proximity to the HDMI source device.
2. Connect the HDMI source device to HDMI IN port of the Transmitter by using a standard HDMI cable.
3. Connect the IR Extension cable to the port on the transmitter unit.
4. Place the other end of the IR Extension cable near the IR port on the HDMI source device.
5. Place the Receiver unit near your HDMI display/projector, Connect the HDMI display /projector to the HDMI Output port of the Receiver unit.
6. Connect the power adapter (included) to the DC IN ports of the Transmitter and Receiver.

Once these steps have been completed the Extender is ready to use, simply power on all devices to begin operation.

Once all equipments are powered on, it is shown by the blue link LED (refer to table below). Then system will initiate a wireless link, successful connection of the link will be shown by the Amber link LED (refer to table below). This may take short time depending on the distance between the units and other environmental factors.

When the initial wireless link has been established, the system will establish a video link between the transmitter and receiver. Once it has been completed, the green video LED will be lit on both units. If your HDMI source and display devices support CEC then your source device can simply be controlled using the display's remote control.

| LED STATUS | Description |
|-------------------------------|-------------------------|
| LED Steady Blue (TX, RX) | Power on |
| LED Slow Blink Amber (TX, RX) | Establishing video link |
| LED Fast Blink Amber (TX, RX) | Established video link |
| LED Steady Green (TX, RX) | Established TX/RX link |



5. GENERAL TROUBLESHOOTING

| PROBLEM | POSSIBLE SOLUTION |
|--|---|
| THE WIRELESS OR VIDEO LINK LED IS NOT LIT | <ul style="list-style-type: none"> • Make sure the units are within the recommended distance (50 meters) <i>(OFF 30 sec then ON)</i>. • Reduce the distance between the Transmitter and Receiver units. Power cycle both extender units <i>(OFF 30 sec then ON)</i>. |
| NO POWER | <ul style="list-style-type: none"> • Re-check all connections and verify they are in the correct positions and verify the units are powered with the provided adapter. |
| IR NOT RESPONDING | <ul style="list-style-type: none"> • Check the IR Extender cable is connected to the Transmitter unit • Check that the IR window is visible and not being obstructed and the transmission of IR from the remote can be sent. • Reposition the IR Flasher to another location near the IR port of your source device |
| NO IMAGE IMAGE INTERFERENCE IMAGE NOT CLEAR | <ul style="list-style-type: none"> • Reduce the distance (less than 1 meter) between the transmitter and receiver units and then reconnect power adapter. • If no picture after Step 1, press RESET button on EITHER the TX or RX • If no picture after Step 1 and step 2, power off units for 2 minutes, reconnect power and press RESET on BOTH TX and RX. |



6. SPECIFICATIONS

| ITEM | DESCRIPTION | |
|--|--|---------------------------|
| UNITS | W-HD3DIR-50M-S (Transmitter) | W-HD3DIR-50M-S (Receiver) |
| UNIT DESCRIPTION | WIRELESS Transmitter | WIRELESS Receiver |
| OPERATING FREQUENCY | 5.1GHz to 5.9 GHz | 5.1GHz to 5.9 GHz |
| BANDWIDTH | 20Mhz/40Mhz | |
| MODULATION MODE | Downlink Channel: OFDM 16-QAM; Uplink Channel: OFDM-OOK | |
| AUDIO FORMAT SUPPORTED | I2S; PCM; SPDIF; AC-3; DTS; Dolby 5.1/7 | |
| DATA RATE | Forward Channel: 3Gbps (400MBS) | |
| SUPPORTED RESOLUTION & DISTANCE | HD: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p PC: VGA (640x480), SVGA (800x600), XGA (1024x768), Monitor : 854x800, 1280x768, 1366x768, 1920x1080 | |
| HDMI CONNECTOR | HDMI FEMALE Plug (input) | HDMI FEMALE Plug (input) |
| ANTENNA | High Performance Internal Antenna | |
| IMAGE DELAY | < 1ms | |
| IR CMFS | 38KHz | |
| TRANSMISSION POWER | Power Output: 10 ±2dBm | Power Output: 15 ±2dBm |
| DIMENSIONS (L X W X H) | 5.4" x 7.7" x 1.2" | 5.4" x 7.7" x 1.2" |
| WEIGHT (LBS) | 1.2 lbs | 1.2 lbs |
| POWER SUPPLY | AC Input 100-240V, DC Output 5V/3A | |
| ENVIRONMENTAL | | |
| OPERATING TEMPERATURE | 32° ~ 104° F (0° to 40° C) | |
| STORAGE TEMPERATURE | -4° ~ 140° F (-20° ~ 60° C) | |
| RELATIVE HUMIDITY | 20~90% RH (no condensation) | |



Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

LABOR: During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact support@avenview.com.

PARTS: During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact support@avenview.com.

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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